

Remarks

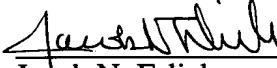
Applicants assert that no new matter has been entered as a result of this amendment. No fees are believed to be due with the filing of this amendment. However, if any fees are deemed to be necessary, the Commissioner is hereby authorized to charge any deficiencies to or credit any overpayment to Deposit Account No. 50-1078.

In accordance with Section 714.01 of the M.P.E.P., the following information is presented in the event that a call may be deemed desirable by the Examiner:

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Dated: February 18, 2004

Respectfully submitted,
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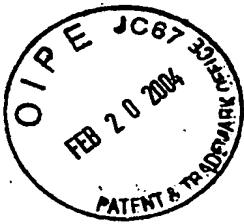


Table 2: Typical Purity from Mouse Pancreas Spleen and Thymus (Pel Freez, Rogers, AR) using 0.8 μ m MMM columns and QIAGEN RNeasy Mini Kit with associated on-column DNase digestion protocols.

		Purity (pg gDNA/ ng sample)	
		gDNA contamination (quantitative direct PCR assay)	
		Invention	QIAGEN
		Std. (- DNase)	+ DNase
Pancreas		1.4×10^{-3}	1.7×10^{-4}
Thymus		2.7×10^1	3.1×10^{-1}
Spleen		8.3×10^{-1}	1.8×10^{-1}
		Std. (- DNase)	+ DNase

Table 3: Typical yields from various frozen mouse tissues (Pel Freez, Rogers, AR) using 0.8 μ m MMM columns and QIAGEN RNeasy Mini Kit.

		Yield	
		A_{260}	
		Low Load	High Load
		Invention	QIAGEN
Brain (2.5, 30 mg)		0.6 μ g/mg	0.8 μ g/mg
Liver (2.5, 30 mg)		4.6 μ g/mg	5 μ g/mg
Kidney (2.5, 30 mg)		2.3 μ g/mg	2.9 μ g/mg
Spleen (2.5, 15 mg)		3.1 μ g/mg	2.5 μ g/mg
HeLa (cells) (5×10^5 , 4×10^6)		13.8 μ g/ 10^6	22.8 μ g/ 10^6
		Invention	QIAGEN

Table 4: Typical purity using 8-Layer glass-fiber prefiltration column and subsequent isolation using 0.8 μ m MMM columns and QIAGEN RNeasy Mini Kit.

		Purity	
		gDNA Contamination	
		(quantitative direct PCR assay)	
		Low Load	High Load
		Invention	QIAGEN
Brain (2.5, 30 mg)		1.2×10^0	1.1×10^2
Liver (2.5, 30 mg)		2.8×10^{-2}	1.3×10^1
Kidney (2.5, 30 mg)		2.1×10^{-1}	5.5×10^1
Spleen (2.5, 15 mg)		2.1×10^{-1}	1.9×10^2
HeLa (cells) (5×10^5 , 4×10^6)		6.8×10^{-2}	6.8×10^1
		Invention	QIAGEN

Reduction of gDNA contamination is important in many molecular biological assays, in particular, quantitative RT-PCR. RT-PCR is generally a two-step reaction